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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,304	06/20/2003	Jeremy R. Choate	1513/22	7948
	·7590 05/23/2007 ER GILSON & LIONE		EXAMINER	
P.O. BOX 10395			KRAMER, DEVON C	
CHICAGO, IL	60610		ART UNIT PAPER NUMBER	
			3683	
			MAIL DATE	DELIVERY MODE
			05/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/601,304	CHOATE ET AL.			
		Examiner	Art Unit			
	·					
	· The MAILING DATE of this communication app	Devon C. Kramer	3683			
Period for	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DA isions of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133)			
Status			•			
1)⊠ F	1)⊠ Responsive to communication(s) filed on <u>10 April 2007</u> .					
2a)⊠ ∃	This action is FINAL . 2b) This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
(closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims					
5)	Claim(s) 1-5,7-27 and 29-35 is/are pending in the above claim(s) 1-5,7-27,29,30,32,34 Claim(s) is/are allowed. Claim(s) 28,31,33 and 36 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or and Papers The specification is objected to by the Examiner	and 35 is/are withdrawn from co	onsideration.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		·			
1) Notice 2) Notice 3) Information	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date 2/07.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

Application/Control Number: 10/601,304

Art Unit: 3683

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 28, 31, 33 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bull (4696320) in view of "Machined Springs are Cut out for Custom Jobs" 8/17/2000.

Bull provides a relief valve device where the spring force is used. Please note that when using or designing the valve in various applications, it is be desirable to have a valve with a different spring rate for varying applications.

The article teaches a method of machining a spring rate to be within 0.33% of a target spring rate. Please note that the article teaches cutting portions of a bar or stock to reach the desired spring rate.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified provided the spring of Bull with a coil spring as taught by the article merely to provide a spring which will operate to the designed pressure, and further to ensure reliability.

Art Unit: 3683

Response to Arguments

Applicant's arguments filed 4/10/07 have been fully considered but they are not persuasive. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Please note that the secondary reference, the article, must teach measuring some spring rate merely because to produce a spring with a spring rate within 0.33 % of a target spring rate an initial or measured value must be obtained. Further, please note that the secondary reference must measure some spring rate in order to ensure that it meets the tolerances claimed. It is common knowledge in the mechanical arts that springs in valves provide different operating characteristics. It is well known to modify a valve with different springs or spring force to change the opening pressures or characteristics.

Conclusion

4) THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 3683

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devon C. Kramer whose telephone number is 571-272-7118. The examiner can normally be reached on Mon-Fri 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rob Siconolfi can be reached on (571)272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Devon C Kramer Primary Examiner

1/11/07

Art Unit 3683